

STATIONARY SOURCE PERMIT TO OPERATE

**This permit includes designated equipment subject to
New Source Performance Standards (NSPS).**

This permit supersedes your permit dated November 10, 2004.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia
Regulations for the Control and Abatement of Air Pollution,

Wyeth (A. H. Robins)
2248 Darbytown Road
Richmond, Virginia 23231
Registration No.: 50898
County-Plant ID No.: 087-0135

is authorized to operate

a manufacturing and packaging of over-the-counter
pharmaceutical products plant

located at

2248 Darbytown Road
Richmond, Virginia 23231

in accordance with the Conditions of this permit.

Approved on Draft

James E. Kyle
Air Permit Manager

Permit consists of 13 pages.
Permit Conditions 1 to 34.

INTRODUCTION

This permit approval is based on the permit application dated April 29, 2002, May 30, 2002, June 19, 2002, and May 1, 2006 including amendment information dated, October 15, 2002, October 16, 2002, October 22, 2002, November 1, 2002, November 15, 2002, November 18, 2002, January 6, 2003, and September 29, 2004. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

PROCESS REQUIREMENTS

1. **Equipment List** - Equipment at this facility consists of the following:

Equipment to be Constructed				
Reference No.	Equipment Description	Rated Capacity	Federal Requirements	
4A	Cleaver Brooks Boiler Model CB(LE)500 (1998) (low NOx burner w/flue gas re-circulation)	20.4 MMBtu/hr	NSPS Subpart Dc	

Equipment permitted prior to the date of this permit				
Reference No.	Equipment Description	Rated Capacity	Federal Requirements	Original Permit Date
1A	Cleaver Brooks Boiler Model CB300-250 (1980)	10.2 MMBtu/hr		

Equipment permitted prior to the date of this permit				
Reference No.	Equipment Description	Rated Capacity	Federal Requirements	Original Permit Date
2A	Cleaver Brooks Boiler Model CB300-250 (1980)	10.2 MMBtu/hr		
3A	Cleaver Brooks Boiler Model CB(LE)500 (1998) (low NOx burner w/flue gas re-circulation)	20.4 MMBtu/hr	NSPS Subpart Dc	
EG1	Caterpillar Emergency Diesel Generator Model 3412 (SAP 112819)	5.3 MMBtu/hr		
EG2	Caterpillar Emergency natural Gas Generator Model G40F1 (SAP 112819)	0.5 MMBtu/hr		
P1	Cummins Diesel Firewater Pump Model N-855-F	0.39 MMBtu/hr		
P2	Cummins Diesel Firewater Pump Model N-855-F	0.39 MMBtu/hr		
	<u>Mix & Blend Tanks - Specialty Areas</u>			
7	Mixing & Blending Tanks (Liquid) (9 Total)	5 ea. @ 2,000 gallons 2 ea. @ 6,000 gallons 1 ea. @ 1,000 gallons 1 ea. @ 550 gallons		
8	Specialty Product Tanks (Liquid/Topical) (4 Total)	2 ea. @ 1,000 gallons 2 ea. @ 100 gallons		
9	Mixing & Blending Tanks (Topical) (3 Total)	1 ea. @ 1,500 gallons 1 ea. @ 500 gallons 1 ea. @ 250 gallons		
10	Mixing & Blending Tanks (Topical) (2 Total) (the 750 gallon is a melt tank)	1 ea. @ 300 gallons 1 ea. @ 100 gallons		
11	Mixing & Blending Tanks (Topical) (6 Total)	6 ea. @ 350 gallons		
12	Mixing & Blending Tanks (Liquid) (3 Total)	2 ea. @ 1,000 gallons 1 ea. @ 300 gallons		
AST-1	AST – Empty or non-VOC	8,500 gallons		
AST-2	AST – Empty or non-VOC	8,500 gallons		
AST-3	AST - #2 Fuel Oil (Diesel)	12,000 gallons		
AST-4	AST - #2 Fuel Oil (Diesel)	20,000 gallons		

Equipment permitted prior to the date of this permit				
Reference No.	Equipment Description	Rated Capacity	Federal Requirements	Original Permit Date
AST-5	AST – Ethanol	5,000 gallons		

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.
(9 VAC 80-1180 D 3)

2. **Emission Controls and Efficiency** – Particulate, PM-10 and VOC emissions from the production of products shall be controlled by the following:

<u>Area Ref. #</u>	<u>Controlled by Ref. #</u>	<u>Control Equipment Description</u>	<u>Rating</u>
7	7A	Fisher-Klosterman Model WL-150 Venturi Scrubber	0% VOC / 90% PM
7	7B	Fisher-Klosterman Model WL-250 Venturi Scrubber	0% VOC / 90% PM
8	8A	Torit Dust Collector Model TD1150-155	95% Efficient
10	10A	Fisher-Klosterman Model ML-200 Venturi Scrubber	0% VOC / 90% PM
11	11A	Luwa X1, H13,V40.610.VZ Filter	99.97% Efficient
12	12A	Torit Dust Collector Model 2DF8	99% Efficient

All control devices listed above shall be provided with adequate access for inspection and shall be in operation when product production is in operation.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

3. **VOC Work Practice Standards** – At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9 VAC 5-50-20 F and 9 VAC 5-80-1180)
4. **Monitoring Devices** - The dust collectors (Ref# 8A, and 12 A) and HEPA Filter (Ref# 11A) shall be equipped with devices to continuously measure the pressure drop across the filter. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the scrubbers are operating.
(9 VAC 5-80-1180 D)
5. **Monitoring Device Observation** – To ensure good performance, the control monitoring devices used to continuously measure pressure drop on the filter and dust collectors shall be observed by the permittee with a frequency of not less than once per day and at least as

often as recommended by the manufacturer. The permittee shall keep a log of the observations from the control monitoring devices.
(9 VAC 5-80-1180 D)

6. **Monitoring Observation** – To ensure good performance, the scrubbers (Ref. #7A, 7B, 10A) shall be observed with a frequency not less than once a day during production to ensure that the control equipment is operational and in good condition. The permittee shall keep a written log of these daily observations.
(9 VAC 5-80-1180 D)

OPERATING LIMITATIONS

7. **Operating Hours** - Each emergency generator shall not operate more than 500 hours per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)
8. **Production** - The production of topical products for Ref # 8, 9, 10, 11 shall not exceed 10,000,000 pounds of product per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)
9. **Production** - The production of liquid products for Ref # 7, 8, 12 shall not exceed 5,000,000 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)
10. **Throughput** - The throughput of ethyl alcohol shall not exceed 10,000 gallons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)
11. **Fuel** - The approved fuel are:

<u>Unit Ref. #</u>	<u>Equipment Description</u>	<u>Approved Fuel(s)</u>
1A	Cleaver Brooks Boiler Model CB300-250 (1980)	Natural Gas & No. 2 Distillate Oil
2A	Cleaver Brooks Boiler Model CB300-250 (1980)	Natural Gas & No. 2 Distillate

		Oil
3A	Cleaver Brooks Boiler Model CB(LE)-500 (1998)	Natural Gas & No. 2 Distillate Oil
4A	Cleaver Brooks Boiler Model CB(LE)-500	Natural Gas & No. 2 Distillate Oil
EG1	Caterpillar Emergency Generator (Model 3412)	No. 2 Distillate Oil
EG2	Caterpillar Emergency Generator (Model G40F1)	Natural Gas
P1	Cummins Diesel Firewater Pump (Model N-855-F)	No. 2 Distillate Oil
P2	Cummins Diesel Firewater Pump (Model N-855-F)	No. 2 Distillate Oil

A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-1180)

12. **Fuel Throughput** – The 2 Cleaver Brooks boilers, Ref # 1A and 2A combined, shall consume no more than 30×10^6 cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)

13. **Fuel Throughput** – The 4 Cleaver Brooks boilers, Ref # 1A, 2A, 3A and 4A combined, shall consume no more than 170,000 gallons of distillate oil and shall consume no more than 230×10^6 cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)

14. **Fuel Throughput** – The Cummins Diesel Firewater Pumps, Ref. # P1 & P2, shall consume no more than 2,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)

15. **Fuel** - The distillate oil and natural gas shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.5%

NATURAL GAS:
Minimum heat content: 1000 Btu/cf HHV as determined by ASTM D1826, D2382, or a DEQ-approved equivalent method.

(9 VAC 5-80-1180 and 9 VAC 5-50-410)

16. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the distillate oil was received;
- c. The quantity of distillate oil delivered in the shipment;
- d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications (ASTM D396) for number 2 fuel oil;
- e. The sulfur content of the distillate oil;

(9 VAC 5-80-1180 and 9 VAC 5-50-410)

17. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in Condition 1 shall be operated in compliance with the requirements of 40 CFR 63, Subpart Dc.
(9 VAC 5-80-1180, 9 VAC 5-50-400 and 9 VAC 5-50-410)

EMISSION LIMITS

18. **Process Emission Limits** - Emissions from the operation of each of the emergency generators shall not exceed the limits specified below:

Particulate Matter (TSP)	1.8 lbs/hr	0.5 tons/yr
PM-10	1.8 lbs/hr	0.5 tons/yr
Sulfur Dioxide (as SO₂)	1.7 lbs/hr	0.5 tons/yr
Nitrogen Oxides (as NO₂)	25.6 lbs/hr	6.4 tons/yr
Carbon Monoxide	5.6 lbs/hr	1.4 tons/yr
Volatile Organic Compounds (VOC)	2.1 lbs/hr	0.6 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number 7.
(9 VAC 5-80-1180)

19. **Process Emission Limits** - Emissions from the operation of Boilers #1 and 2 when burning natural gas shall not exceed the limits specified below:

Nitrogen Oxides (as NO₂)	2.0 lbs/hr	1.5 tons/yr
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These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of

the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number 12.
 (9 VAC 5-80-1180)

20. **Process Emission Limits** - Emissions from the operation of the four boilers (Ref # 1, 2, 3, and 4) shall not exceed the limits specified below:

Particulate Matter (TSP)	1.3 lbs/hr	1.0 tons/yr
PM-10	1.3 lbs/hr	1.0 tons/yr
Sulfur Dioxide (as SO₂)	31.1 lbs/hr	6.1 tons/yr
Nitrogen Oxides (as NO₂)	12.1 lbs/hr	6.4 tons/yr
Carbon Monoxide	7.3 lbs/hr	10.1 tons/yr
Volatile Organic Compounds (VOC)	0.4 lbs/hr	0.6 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 8, 9, 10, 12, 13, 15, 17.
 (9 VAC 5-80-1180)

21. **Facility wide Emission Limits** - Total emissions from the facility shall not exceed the limits specified below:

Particulate Matter (TSP)	3.2 lbs/hr	2.1 tons/yr
PM-10	3.2 lbs/hr	2.1 tons/yr
Sulfur Dioxide (as SO₂)	33.5 lbs/hr	6.6 tons/yr
Nitrogen Oxides (as NO₂)	37.9 lbs/hr	12.8 tons/yr
Carbon Monoxide	12.9 lbs/hr	11.5 tons/yr
Volatile Organic Compounds (VOC)	2.8 lbs/hr	1.9 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 2 through 17 and 22.
 (9 VAC 5-80-1180 and 9 VAC 5-50-260)

22. **Visible Emission Limit** - Visible emissions from the boilers shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, or malfunction.
 (9 VAC 5-80-1180 and 9 VAC 5-50-80)

RECORDS

23. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Piedmont Region. These records shall include, but are not limited to:

- a. Monthly and annual number in pounds of topical products produced in all topical manufacturing areas (Ref. #8, 9, 10, & 11).
- b. Monthly and annual number in gallons of liquid products produced in all liquid manufacturing areas (Ref. #7, 8, & 12).
- c. Monthly and annual throughput in gallons of No. 2 distillate oil used for each of the boilers (Ref. # 1, 2, 3 and 4).
- d. Monthly and annual throughput in cubic feet of natural gas used for each of the boilers (Ref. # 1, 2, 3, and 4).
- e. Monthly and annual throughput in gallons of diesel fuel used for each of the Cummins firewater pumps (Unit Ref. #P1 and P2).
- f. Monthly and annual throughput in gallons or pounds of ethanol alcohol calculated monthly as the sum of each consecutive 12-month period.
- g. Monthly and annual hours of operation records for each emergency generator (Ref. #EG1 & EG2).
- h. All fuel supplier certifications.
- i. Material Safety Data Sheets (MSDS) or other vendor information showing VOC content, toxic compound or HAP content, water content, and solids content for any compounds used.
- j. Written records of the daily observations of the scrubbers (Ref. # 7A, 7B, 10A).
- k. Written records of the observations of the filter and dust collectors (Ref# 11A, 8A, and 12A).
- l. Scheduled and unscheduled maintenance and operator training for the boilers.
- m. Scheduled and unscheduled maintenance on control and monitoring equipment.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-1180 and 9 VAC 5-50-50)

24. **Emissions Testing** - The permitted facility shall be modified so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.
(9 VAC 5-50-30 F and 9 VAC 5-80-1180)

NOTIFICATIONS

25. **Initial Notifications** - The permittee shall furnish written notification to the Piedmont Region of:
- The actual date on which modification of the Boiler #4 commenced within 30 days after such date.
 - The anticipated start-up date of the Boiler #4 postmarked not more than 60 days nor less than 30 days prior to such date.
 - The actual start-up date of the Boiler #4 within 15 days after such date.
 - The anticipated date of performance tests of the Boiler #4 postmarked at least 30 days prior to such date.
 - Copies of the written notification referenced in items a through d above are to be sent to:
Associate Director
Office of Air Enforcement (3AP10)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029]
- (9 VAC 5-50-50 and 9 VAC 5-80-1180)

26. **Notification for Control Equipment Maintenance** - The permittee shall furnish notification to the Director, Piedmont Region of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour, at least 24 hours prior to the shutdown. The notification shall include, but is not limited to, the following information:
- Identification of the air pollution control equipment to be taken out of service, as well as its location, and registration number;
 - The expected length of time that the air pollution control equipment will be out of service;
 - The nature and quantity of emissions of air pollutants likely to occur during the shutdown period;

- d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-20-180 B)

GENERAL CONDITIONS

27. Permit Suspension/Revocation - This permit may be suspended or revoked if the permittee:

- a. Knowingly makes material misstatements in the permit application or any amendments to it;
- b. Fails to comply with the conditions of this permit;
- c. Fails to comply with any emission standards applicable to a permitted an emissions unit, included in this permit;
- d. Causes emissions from the stationary source which result in violations of, or interfere with the attainment and maintenance of, any ambient air quality standard; or
- e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

(9 VAC 5-80-1210 F)

28. Right of Entry - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
- c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.
- e. For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130 and 9 VAC 5-80-1180)

29. **Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.
- e. Records of maintenance shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E and 9 VAC 5-80-1180 D)

30. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.

(9 VAC 5-20-180 J and 9 VAC 5-80-1180 D)

31. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Piedmont Region of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Piedmont Region.

(9 VAC 5-20-180 C and 9 VAC 5-80-1180)

32. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating

any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I and 9 VAC 5-80-1180)

33. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Piedmont Region of the change of ownership within 30 days of the transfer.
(9 VAC 5-80-1240)
34. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-1180)

SOURCE TESTING REPORT FORMAT

Report Cover

1. Plant name and location
2. Units tested at source (indicate Ref. No. used by source in permit or registration)
3. Test Dates.
4. Tester; name, address and report date

Certification

1. Signed by team leader/certified observer (include certification date)
2. Signed by responsible company official
3. *Signed by reviewer

Copy of approved test protocol

Summary

1. Reason for testing
2. Test dates
3. Identification of unit tested & the maximum rated capacity
4. *For each emission unit, a table showing:
 - a. Operating rate
 - b. Test Methods
 - c. Pollutants tested
 - d. Test results for each run and the run average
 - e. Pollutant standard or limit
5. Summarized process and control equipment data for each run and the average, as required by the test protocol
6. A statement that test was conducted in accordance with the test protocol or identification & discussion of deviations, including the likely impact on results
7. Any other important information

Source Operation

1. Description of process and control devices
2. Process and control equipment flow diagram
3. Sampling port location and dimensioned cross section Attached protocol includes: sketch of stack (elevation view) showing sampling port locations, upstream and downstream flow disturbances and their distances from ports; and a sketch of stack (plan view) showing sampling ports, ducts entering the stack and stack diameter or dimensions

Test Results

1. Detailed test results for each run
2. *Sample calculations
3. *Description of collected samples, to include audits when applicable

Appendix

1. *Raw production data
2. *Raw field data
3. *Laboratory reports
4. *Chain of custody records for lab samples
5. *Calibration procedures and results
6. Project participants and titles
7. Observers' names (industry and agency)
8. Related correspondence
9. Standard procedures

* Not applicable to visible emission evaluations